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**NATIONAL STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

GB 29753-2023

Replacing GB 29753-2013

**Road transportation Perishable foodstuffs and biological
products Safety requirement and test methods of refrigerated
vehicle**

道路运输 易腐食品与生物制品 冷藏车安全要求及试验方法

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Foreword

This document complies with the provisions of GB/T 1.1-2020 "Standardization Work Guidelines Part

1. Structure and Drafting Rules of Standardization Documents" Drafting. This document replaces GB 29753-2013 "Safety Requirements and Test Methods for Refrigerated Trucks for Road Transport of Food and Biological Products" and is consistent with Compared with GB 29753-2013, in addition to structural adjustments and editorial changes, the main technical changes are as follows:

---Changed the scope (see Chapter 1, Chapter 1 of the.2013 edition);

---Added the terms "refrigerated truck", "non-mechanical refrigerated refrigerated truck", "cold storage plate", "mechanical refrigerated refrigerated truck", "mechanical refrigerated and heated refrigerated truck" "Car", "multi-temperature refrigerated truck", "refrigerated unit" and their definitions (see 3.3, 3.4, 3.5, 3.6, 3.7, 3.8, 3.9);

---Changed the terms and definitions of mechanical refrigeration device, driving temperature recorder, air leakage multiple and heat transfer (see 3.11, 3.12, 3.13, 3.14,.2013 version 3.3, 3.4, 3.5, 3.7);

---Added the classification of non-mechanically refrigerated refrigerated trucks (see 4.2);

---Changed the classification of mechanical refrigeration refrigerated trucks and added Class I mechanical refrigerated refrigerated trucks (see 4.3.1);

--- Added classification of mechanical refrigeration and heating refrigerated trucks (see 4.4);

---Deleted the requirements for outer dimensions, axle load and mass limits (see

5.1.1 of the.2013 edition);

---Deleted driving safety requirements (see

5.1.2 of the.2013 version);

---Deleted the installation requirements for external lighting and optical signaling devices (see

5.1.3 of the.2013 edition);

1 Scope

GB 29753-2023 is the Chinese national standard on road transportationperishable foodstuffs and biological productssafety requirement and test methods of refrigerated vehicle, in the field of road vehicles engineering. It carries no /T suffix, which in the Chinese system means compliance is mandatory: a product or a practice within its scope has to meet it to be lawfully made, sold or carried out in China. It was issued on 8 September 2023 by the State Administration for Market Regulation; Standardization Administration of China, and has been in force since 1 January 2024. Classification: ICS 43.160, CCS T54. This page is published from the official record of the standard held by the Chinese standards administration: the identification, the dates, the classification and the issuing body are taken from there. The clause text, the tables and the numeric limits are in the document itself, which is delivered complete in English translation.

This document specifies the classification, technical requirements, test methods and markings of refrigerated trucks. This document is applicable to the refrigeration of road transport of perishable food and biological products using completed vehicles or modified Class II and III chassis. Cars and refrigerated semi-trailers.

2 Normative reference documents

The contents of the following documents constitute essential provisions of this document through normative references in the text. Among them, the dated quotations For undated referenced documents, only the version corresponding to that date applies to this document; for undated referenced documents, the latest version (including all amendments) applies to this document.

GB 19239-2022 Specifications for installation of gas systems for gas vehicles

3 Terms and definitions

The following terms and definitions apply to this document.

3.1 perishablefoodstuffs A general term for foods that are prone to spoilage when stored at room temperature or in circulation.

3.2 biological product biological product Immunological preparations or biologically active preparations made by biological technologies such as genetic engineering, cell engineering, and fermentation engineering.

3.3 refrigerated vehicle refrigerated vehicle It is a special vehicle equipped with a compartment with an insulating structure and a temperature adjustment device for refrigerated transportation.

Note. The cabin with thermal insulation structure is composed of hard insulated side walls, doors, floors, front panels and roofs, which can limit the heat conduction between the inside and outside of the cabin to the total transmission The car body is within the thermal coefficient.

3.4 Refrigerated trucks equipped with non-mechanical refrigeration devices that use liquefied gas, cold storage panels, etc. as refrigeration sources.

3.5 cold storage plate hold-over plate A plate container containing a eutectic mixture.

Note. Consists of a coil for freezing the mixture, usually connected to a refrigeration unit.
[Source: GB/T 18517-2012, 3.4.15, modified]

3.6 Refrigerated trucks equipped with mechanical refrigeration devices.